

Ripped from the ROUNDUP

Ripped straight from the pages of old Space News Roundups, here's what happened at JSC on this date:

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Volunteers from the Houston Fire Department walked on the edge of a pit of burning JP-4 jet fuel during a recent test of firefighter garments made of nonflammable space-age fabrics.

The Crew Systems Division makes the garments here from fire-resistant fabrics developed for use in manned spaceflight where 100 percent oxygen atmosphere increases the fire potential. The garments are multilayer sandwiches of Durette, Fypro fabric and Fypro batting.

"No structural firefighter's suit available today would allow such close exposure to an intense fire," said Capt. Jon King of the Houston Fire Department. "The Durette structural suit is out of this world, and is just what we've been looking for."

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After a stopover at Ellington Field last week, the new Orbiter *Atlantis* is scheduled to begin pre-launch processing at the Kennedy Space Center for her maiden flight later this year.

Officially designated OV 104, *Atlantis* completes the currently authorized fleet of Space Shuttle orbiters. It is essentially a twin of *Discovery*, the third spaceship in the fleet. The ship is named after a two-masted ketch, which was operated for the Woods Hole Oceanographic Institute from 1930 to 1966.

Atlantis has been outfitted with special modifications needed to support the Galileo and Ulysses missions in 1986. These modifications include the payload bay plumbing and necessary umbilical connection for cryogenic services of the Centaur upper stage.

1 9 8 6

Flight controllers at NASA's Jet Propulsion Laboratory are working to return Galileo to normal operations after the spacecraft unexpectedly went into safing mode last week.

Although controllers do not know what caused the incident, it is not expected to have any permanent effect on the Jupiter-bound Galileo, which has been on a relatively quiet cruise en route to a flyby on the asteroid Gaspra next October.

Project engineers said they suspect the spacecraft's defensive status was caused by cosmic rays. Galileo, 36 million miles from Earth, went into the safing mode about 8:10 a.m. CST March 26.



Engineers Week turns 50



NASA JSC 2001e05579

"I think that E-week is a wonderful opportunity for young students to begin to understand how the math and science they are learning can be used in the real world. Specifically as NASA engineers, we also have the added bonus of being able to kindle students' imaginations and dreams by relating engineering to the advancement of the space program."

- **John Wilson**, Co-op in Biomedical Hardware, who volunteered at Ms. Leslie Gonsalves' 4th graders at T.H. Rogers



NASA JSC 2001e05517

"The kids are surprised to learn what an engineer does and can do—without us there would be no Nintendo! We need to make sure the space program is ready for them. With them, everything is still possible."

- **Karon Woods**, Station Safety Operational Risk, who went to Ms. Petri's kindergarten class at Pearland's Rustic Oaks Elementary



NASA JSC 2001e05580

"E-week was a lot of fun and a great opportunity to try and help point some amazing little minds towards math, science and engineering. Those kids were bright!"

- **Daniel Villa**, Co-op in Avionics Systems, who volunteered at Ms. Leslie Gonsalves' 4th graders at T.H. Rogers

Approximately 10,000 kids were reached by a total of 12 volunteers who gave 331 presentations. Way to go, JSC!



NASA JSC 2001e05515

"One of the assets of being a NASA engineer is the opportunity it allows me to interact with students during National Engineers Week. Together we embark on the journey to discovery and allow our minds to roam the frontiers of space. The enthusiasm these students show toward NASA is most rewarding."

- **Deborah Stephens-Cleary**, Safety & Mission Assurance, who went to Ms. Petri's kindergarten class at Pearland's Rustic Oaks Elementary



"I do Engineers Week to give kids a sense of purpose. The main reason I do this type of mentoring is because it was done for me. Mentors provided good role models for me and so I am trying to give back something that I received."

- **Bruce Powers**, United Space Alliance Engineering Staff, Guidance and Control Systems, who went to Ms. Pitts' 7th grade class at Harby Junior High in Alvin